	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	85	arsacs	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:28			0
2	BRS	L3	6	spastin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:36			0
3	BRS	L4	95984	nucleic adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:36			0
4	BRS	L5	11445	exon	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:37			0
5	BRS	L7	48103	(vertebrate or human) same gene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:38			0
6	BRS	L8	1	"12793" adj base adj pairs	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:45			0
7	BRS	L9	695	4 same 5 same 7	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:39			0
8	BRS	L10	42328	base adj pairs	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:40			0
9	BRS	L11	71	9 same 10	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:41			0
10	BRS	L12	5	"13000" adj base adj pairs	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:45			0
11	BRS	L13	0	9 same 12	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:46			0
12	BRS	L14	13	"14000" adj base adj pairs	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:46			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
13	BRS	L15	0	9 same 14	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:46			0
14	BRS	L16	26	"15000" adj base adj pairs	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:46			0
15	BRS	L17	0	9 same 16	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:47			0
16	BRS	L18	49	hudson adj thomas.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:47			0
17	BRS	L19	1	engert adj james.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:48			0
18	BRS	L20	62	richter adj andrea.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:48			0
19	BRS	L21	0	(18 or 19 or 20) and (1 or 3 or 9)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/02 17:49			0

```
FILE 'HOME' ENTERED AT 17:51:15 ON 02 JAN 2003

=> file medline caplus biosis embase scisearch agricola
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'MEDLINE' ENTERED AT 17:51:42 ON 02 JAN 2003

FILE 'CAPLUS' ENTERED AT 17:51:42 ON 02 JAN 2003
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FILE 'EMBASE' ENTERED AT 17:51:42 ON 02 JAN 2003
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FILE 'SCISEARCH' ENTERED AT 17:51:42 ON 02 JAN 2003
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FILE 'AGRICOLA' ENTERED AT 17:51:42 ON 02 JAN 2003

=> s arsacs
L1          56 ARSACS

=> s spastin
L2         174 SPASTIN

=> s nucleic acid (p) exon (p) (vertebrate or human)
   3 FILES SEARCHED...
L3         724 NUCLEIC ACID (P) EXON (P) (VERTEBRATE OR HUMAN)

=> s l3 (p) l2
L4           0 L3 (P) L2

=> s l2 (p) (human or vertebrate) (p) gene
   3 FILES SEARCHED...
L5          43 L2 (P) (HUMAN OR VERTEBRATE) (P) GENE

=> duplicate remove l5
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L5
L6           33 DUPLICATE REMOVE L5 (10 DUPLICATES REMOVED)

=> s l6 (p) (base pair)
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L43 (P) '
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L45 (P) '
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L47 (P) '
L7           0 L6 (P) (BASE PAIR)

=> d his

     (FILE 'HOME' ENTERED AT 17:51:15 ON 02 JAN 2003)

     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT
     17:51:42 ON 02 JAN 2003
L1          56 S ARSACS
L2         174 S SPASTIN
L3         724 S NUCLEIC ACID (P) EXON (P) (VERTEBRATE OR HUMAN)
L4           0 S L3 (P) L2
L5          43 S L2 (P) (HUMAN OR VERTEBRATE) (P) GENE
L6          33 DUPLICATE REMOVE L5 (10 DUPLICATES REMOVED)
L7           0 S L6 (P) (BASE PAIR)
```

```
=> s l6 (p) exon
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L56 (P) EXON'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L58 (P) EXON'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L60 (P) EXON'
L8            1 L6 (P) EXON

=> d l8 1 ibib abs

L8   ANSWER 1 OF 1  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER:   2000:350945  BIOSIS
DOCUMENT NUMBER:    PREV200000350945
TITLE:              Clinical and pathologic findings in hereditary spastic
                    paraparesis with spastin mutation.
AUTHOR(S):          White, K. D.; Ince, P. G.; Lusher, M.; Lindsey, J.;
                    Cookson, M.; Bashir, R.; Shaw, P. J.; Bushby, K. M. D. (1)
CORPORATE SOURCE:   (1) Department of Human Genetics, 19/20 Claremont Place,
                    Newcastle upon Tyne, NE2 4AA UK
SOURCE:             Neurology, (July 12, 2000) Vol. 55, No. 1, pp. 89-94.
                    print.
                    ISSN: 0028-3878.
DOCUMENT TYPE:      Article
LANGUAGE:           English
SUMMARY LANGUAGE:   English
AB   Objective: To describe a family with chromosome 2p-linked hereditary
     spastic paraparesis (HSP) associated with dementia and illustrate the
     cerebral pathology associated with this disorder. Background: HSP
     comprises a heterogeneous group of inherited disorders in which the main
     clinical feature is severe, progressive lower limb spasticity. Nongenetic
     classification relies on characteristics such as mode of inheritance, age
     at onset, and the presence or absence of additional neurologic features.
     Several loci have been identified for autosomal dominant pure HSP. The
     most common form, which links to chromosome 2p (SPG4), has recently been
     shown to be due to mutations in spastin, the gene encoding a novel
     AAA-containing protein. Results: The authors report four generations of a
     British family with autosomal dominant HSP in whom haplotype analysis
     indicates linkage to chromosome 2p. In addition, a missense mutation has
     been identified in exon 10 of the spastin gene (A1395G). Dementia was
     documented clinically in one member of the family, two other affected
     family members were reported to have had late onset memory loss, and a
     younger affected individual showed evidence of memory disturbance and
     learning difficulties. Autopsy of the demented patient confirmed changes
     in the spinal cord typical of HSP and also demonstrated specific cortical
     pathology. There was neuronal depletion and tau-immunoreactive
     neurofibrillary tangles in the hippocampus and tau-immunoreactive balloon
     cells were seen in the limbic and neocortex. The substantia nigra showed
     Lewy body formation. The pathologic findings are not typical of known
     tauopathies. Conclusions: The authors confirm that chromosome 2p-linked
     HSP can be associated with dementia and that this phenotype may be
     associated with a specific and unusual cortical pathology.


=> d his

     (FILE 'HOME' ENTERED AT 17:51:15 ON 02 JAN 2003)

     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT
     17:51:42 ON 02 JAN 2003
L1            56 S ARSACS
L2           174 S SPASTIN
L3           724 S NUCLEIC ACID (P) EXON (P) (VERTEBRATE OR HUMAN)
L4             0 S L3 (P) L2
L5            43 S L2 (P) (HUMAN OR VERTEBRATE) (P) GENE
L6            33 DUPLICATE REMOVE L5 (10 DUPLICATES REMOVED)
L7             0 S L6 (P) (BASE PAIR)
L8             1 S L6 (P) EXON

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
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